KX-HTS Step by Step Guide
SIP Trunk

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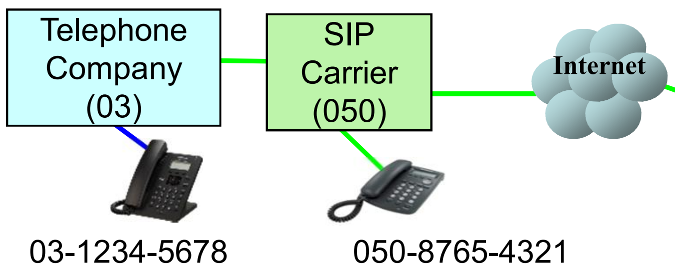
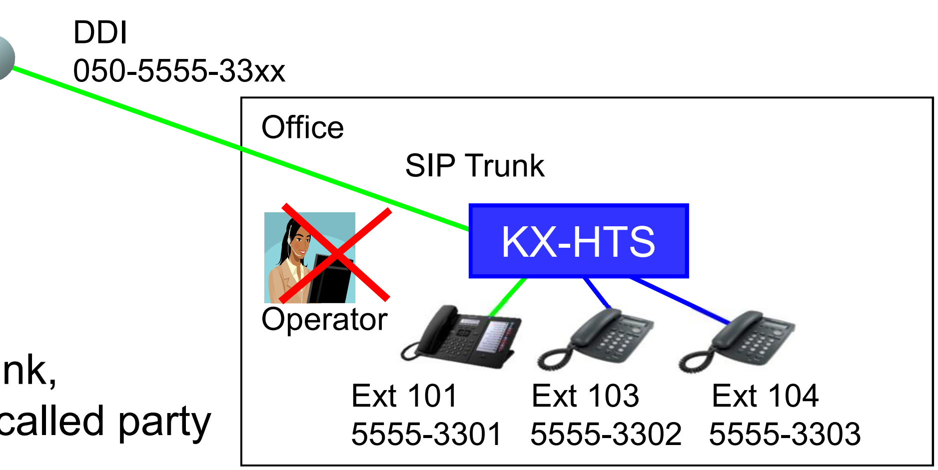
PBX SE team

Specifications are subject to change without notice.

1. Overview

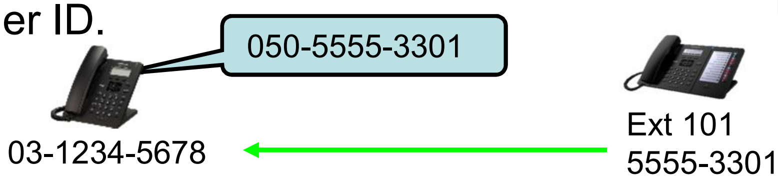
SIP trunk is useful in order to save cost.
KX-HTS supports 200 DDI numbers for one or two SIP carriers.
Extension can be called directly by DDI without operator.





CLIP

When extension calls using SIP trunk, his/her DDI number is informed to called party as caller ID.

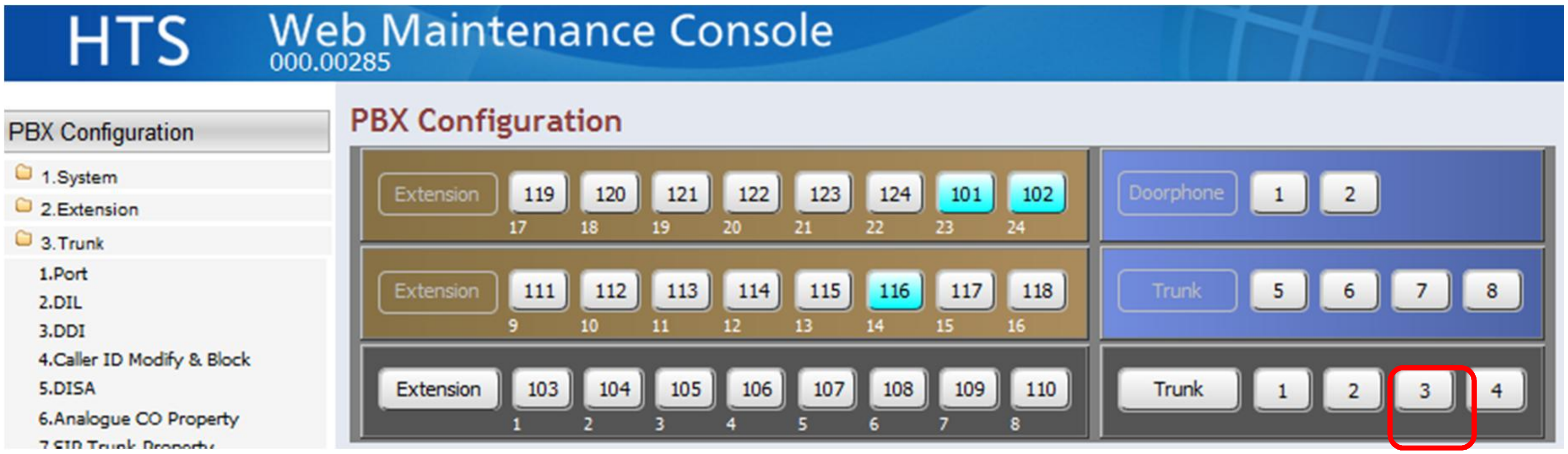


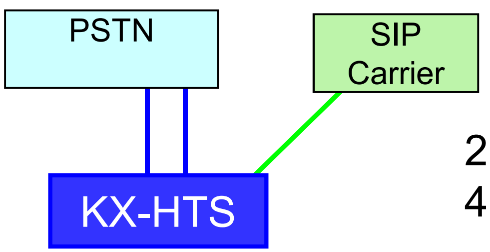
2. Table of Contents

Chapter 1
SIP Trunk Programming

11. Click Port to change to SIP.

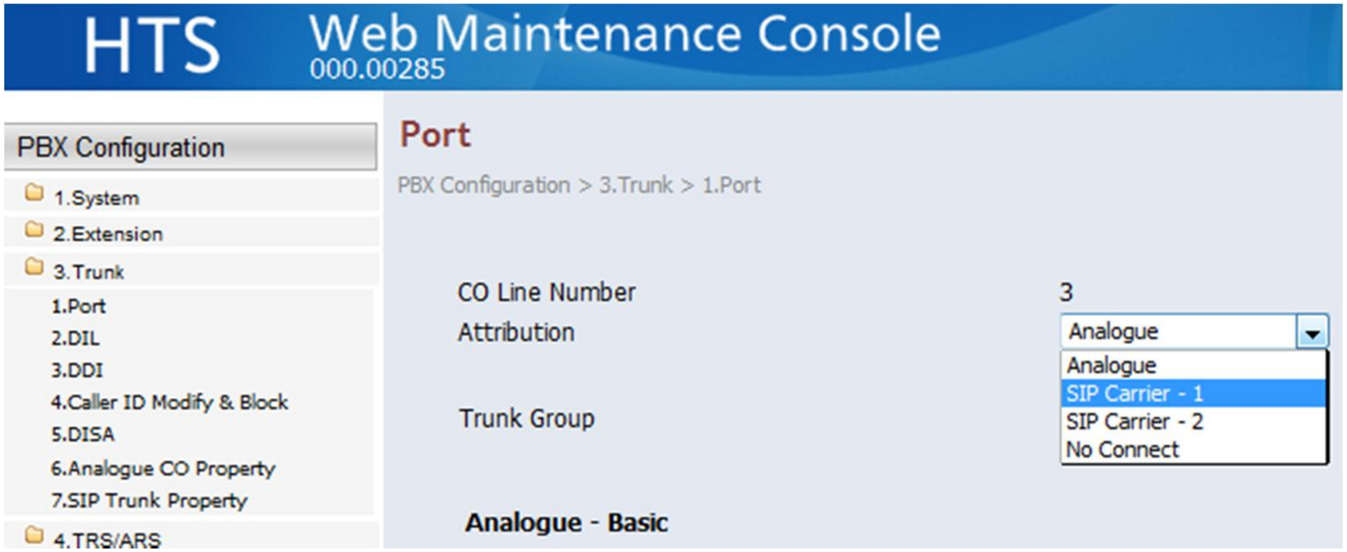
Click port 3 for example.



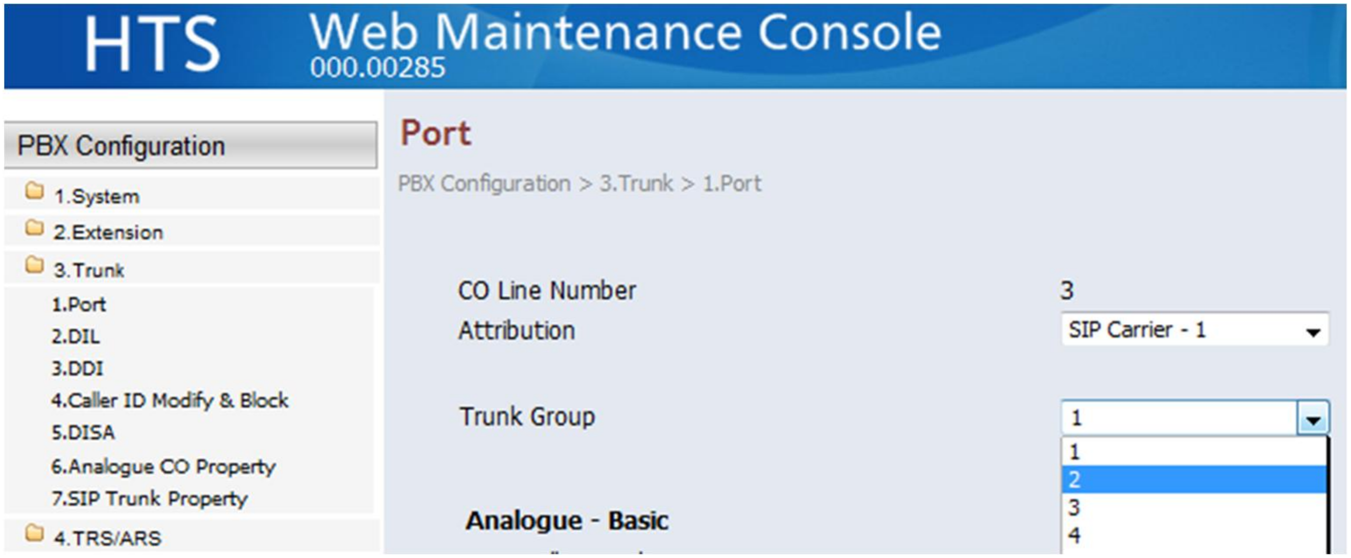


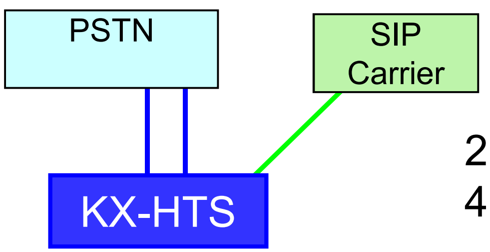
2 lines of Analog CO and
4 ch of SIP for example.

12. Change the port to SIP.



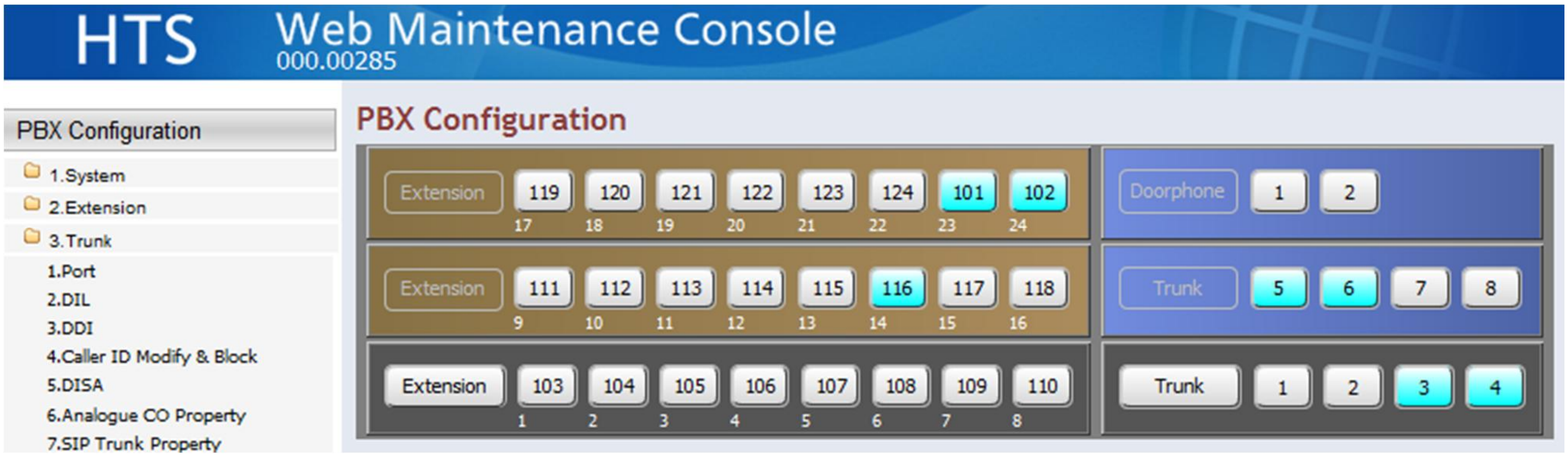
13. Assign Trunk Group.

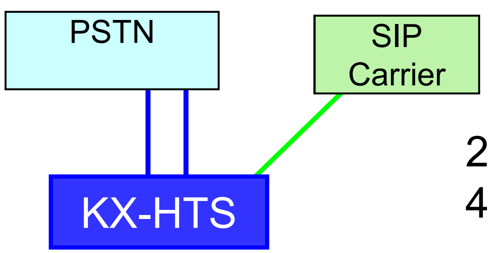




2 lines of Analog CO for TRG1
4 ch of SIP for TRG2

14. Repeat to other trunk.

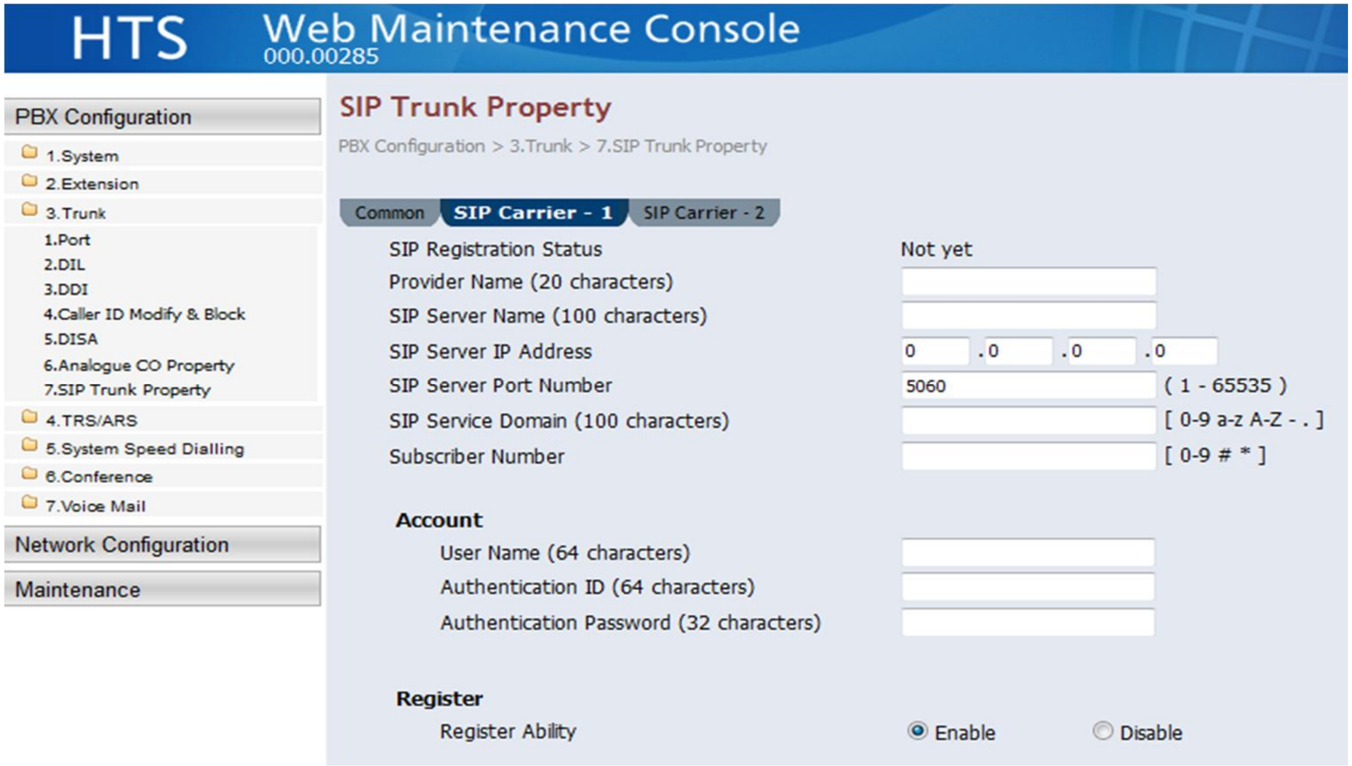




2 lines of Analog CO and
4 ch of SIP for example.

15. Assign SIP account.

Ask your account to your SIP carrier.



16. Assign Voice Codec.

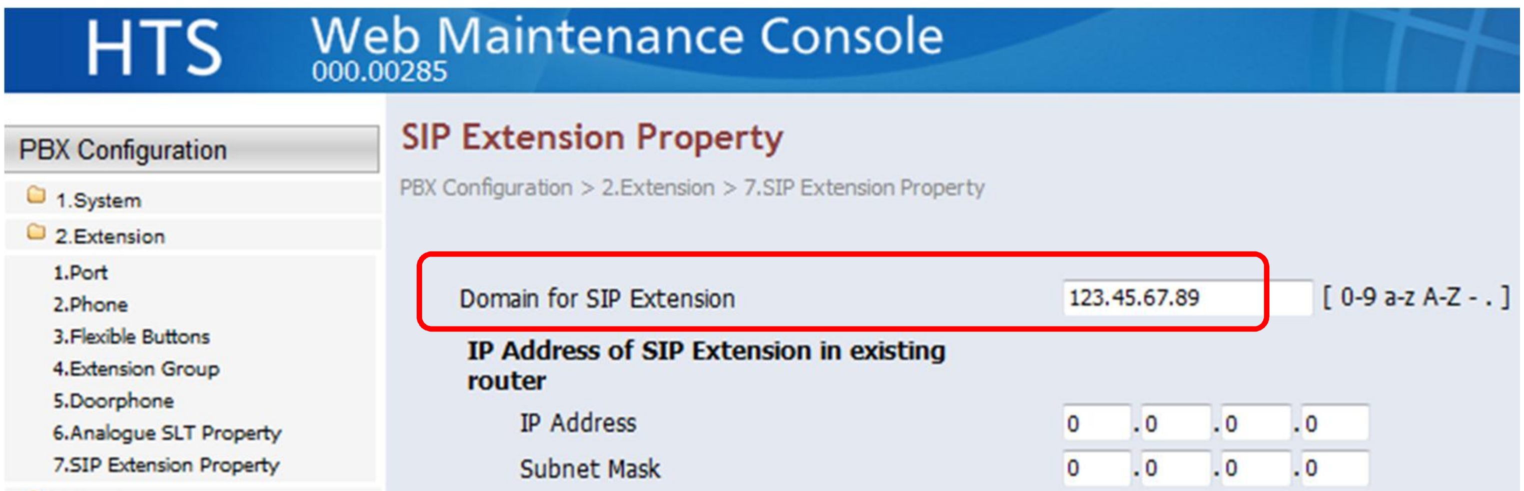
Ask correct CODEC to your SIP carrier.

If it is G.729, assign G729 for 1st priority and None for 2nd and 3rd priority.

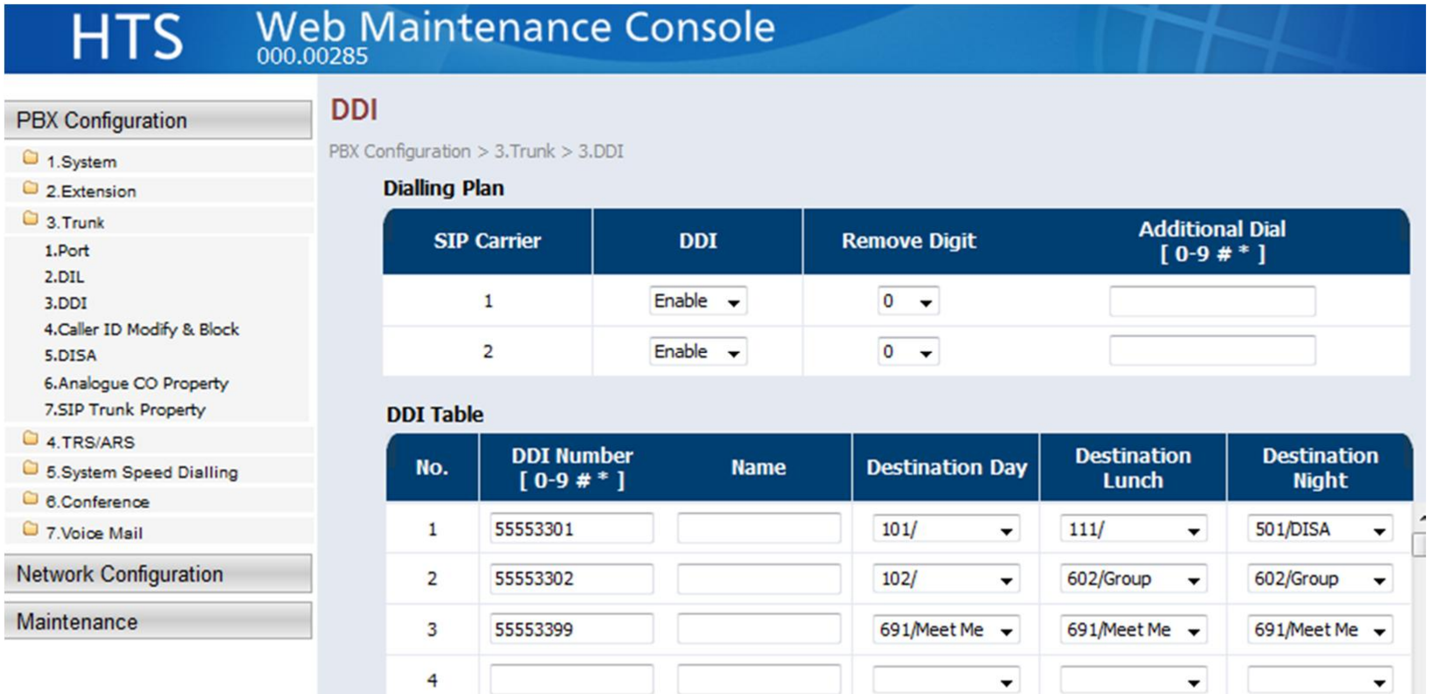
17. Assign SIP Domain Name.

SIP domain name is required for call using WAN.

123.45.67.89 is example.
Some SIP phone does not support character (a-z A-Z) for SIP domain name.



18. Assign DDI.



HTS Web Maintenance Console
000.00285

PBX Configuration
1.System
2.Extension
3.Trunk
1.Port
2.DIL
3.DDI
4.Caller ID Modify & Block
5.DISA
6.Analogue CO Property
7.SIP Trunk Property
4.TRS/ARS
5.System Speed Dialling
6.Conference
7.Voice Mail
Network Configuration
Maintenance

DDI

PBX Configuration > 3.Trunk > 3.DDI

Dialling Plan

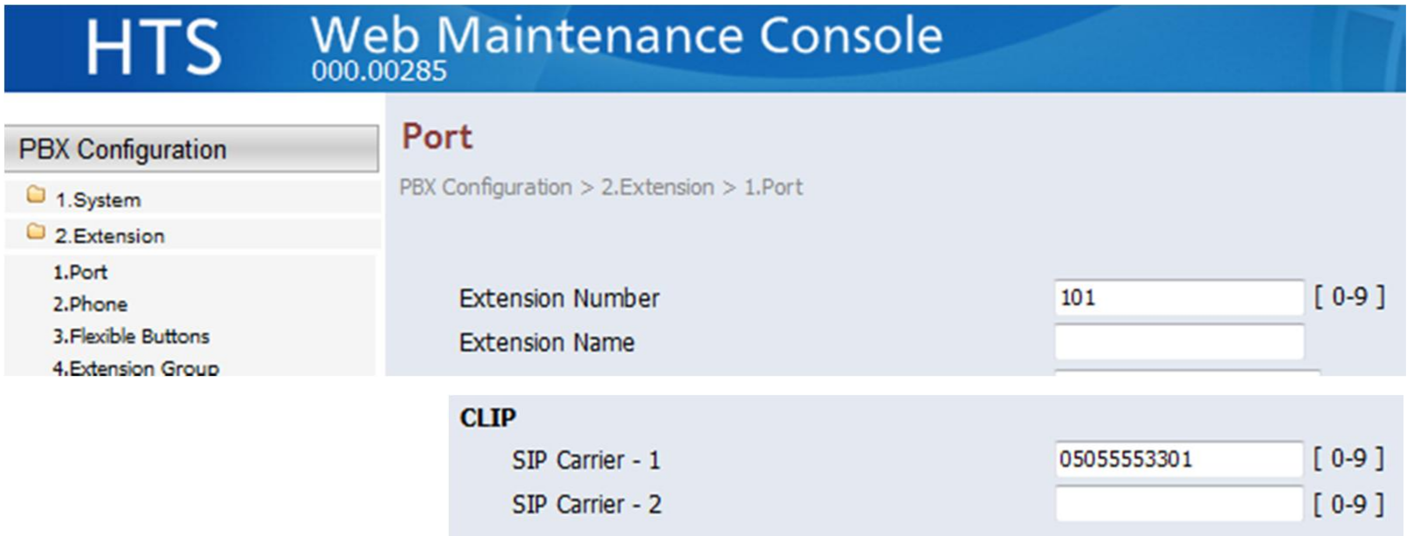
SIP Carrier	DDI	Remove Digit	Additional Dial [0-9 # *]
1	Enable	0	
2	Enable	0	

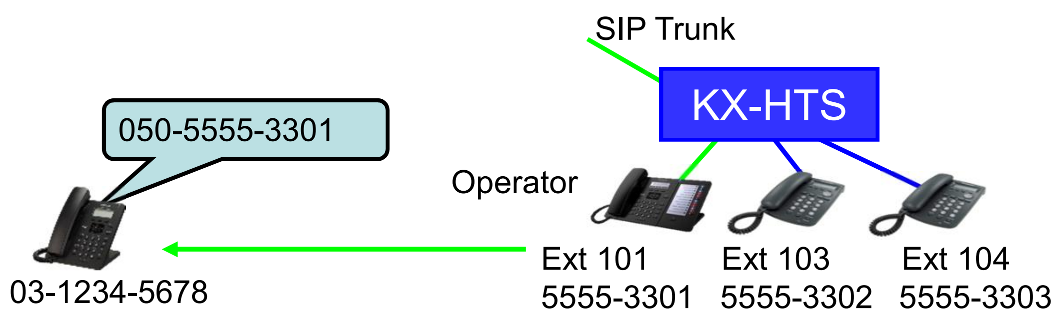
DDI Table

No.	DDI Number [0-9 # *]	Name	Destination Day	Destination Lunch	Destination Night
1	55553301		101/	111/	501/DISA
2	55553302		102/	602/Group	602/Group
3	55553399		691/Meet Me	691/Meet Me	691/Meet Me
4					

When received DDI number after modification by “Remove” and “Add” cannot be found in DDI table, but it is same as extension number, destination becomes the extension. If it is not extension number also, DIL is applied.

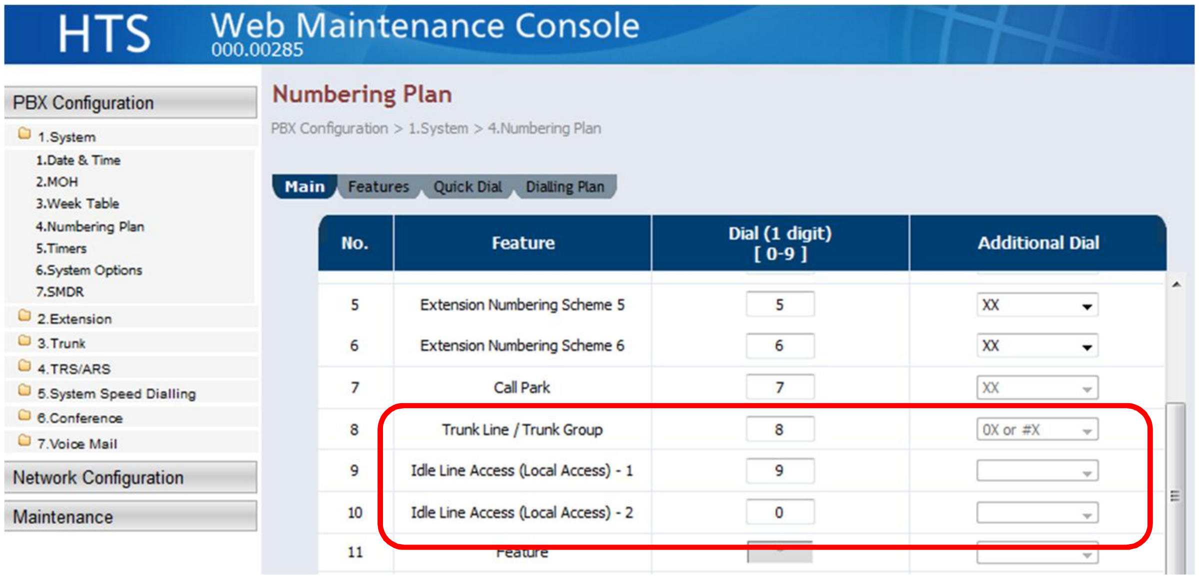
19. Assign CLIP.

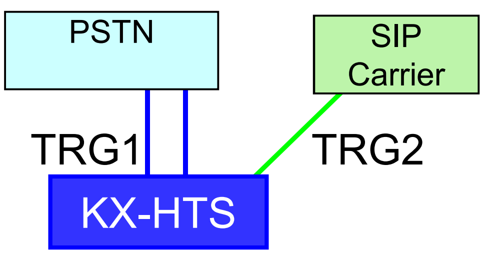




Chapter 2
Test after SIP Programming

21. Confirm CO Access Number.



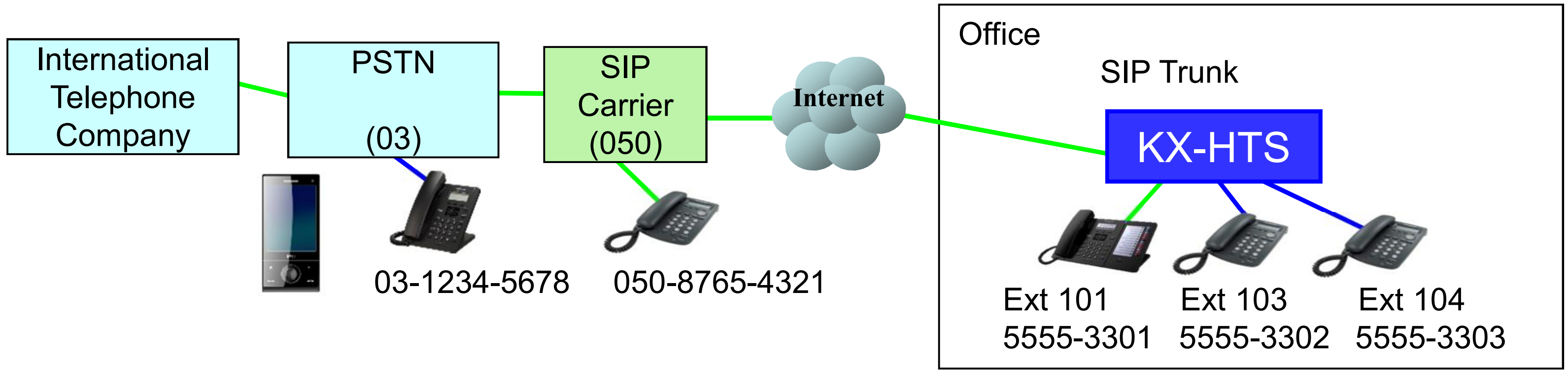


Dial 0 or 9 for any trunk + Phone number.
Dial 8#1 for TRG1 + Phone number.
Dial 8#2 for TRG2 + Phone number.

Phone number is 03-1234-5678 for example.

22. Make and Receive a call actually.

Outgoing call : CLIP as caller ID has to be sent to called party correctly.
Incoming call : Call has to be distributed to DDI destination with caller ID correctly.
Talking : Voice quality has to be good. DTMF can be sent.



Call	Phone	Check
Call from	Phone in SIP Carrier	
Call to	Phone in SIP Carrier	
Call from	Phone in PSTN (Analog)	
Call to	Phone in PSTN (Analog)	

Call	Phone	Check
Call from	Cellular Phone	
Call to	Cellular Phone	
Call from	International (if customer needs)	
Call to		

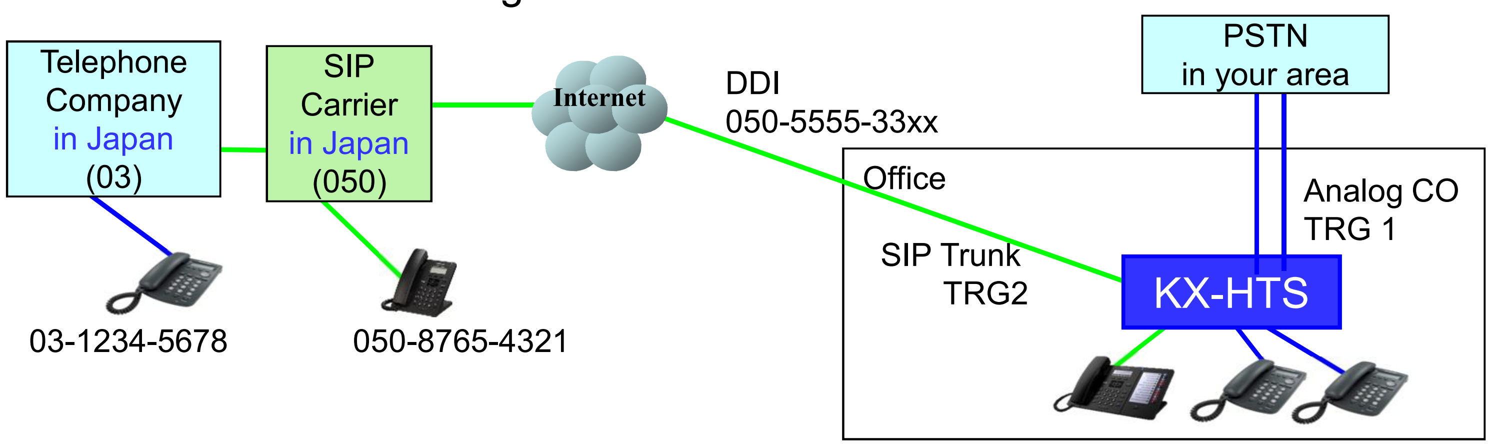
Chapter 3
ARS Programming

30. ARS : Automatic Route Selection

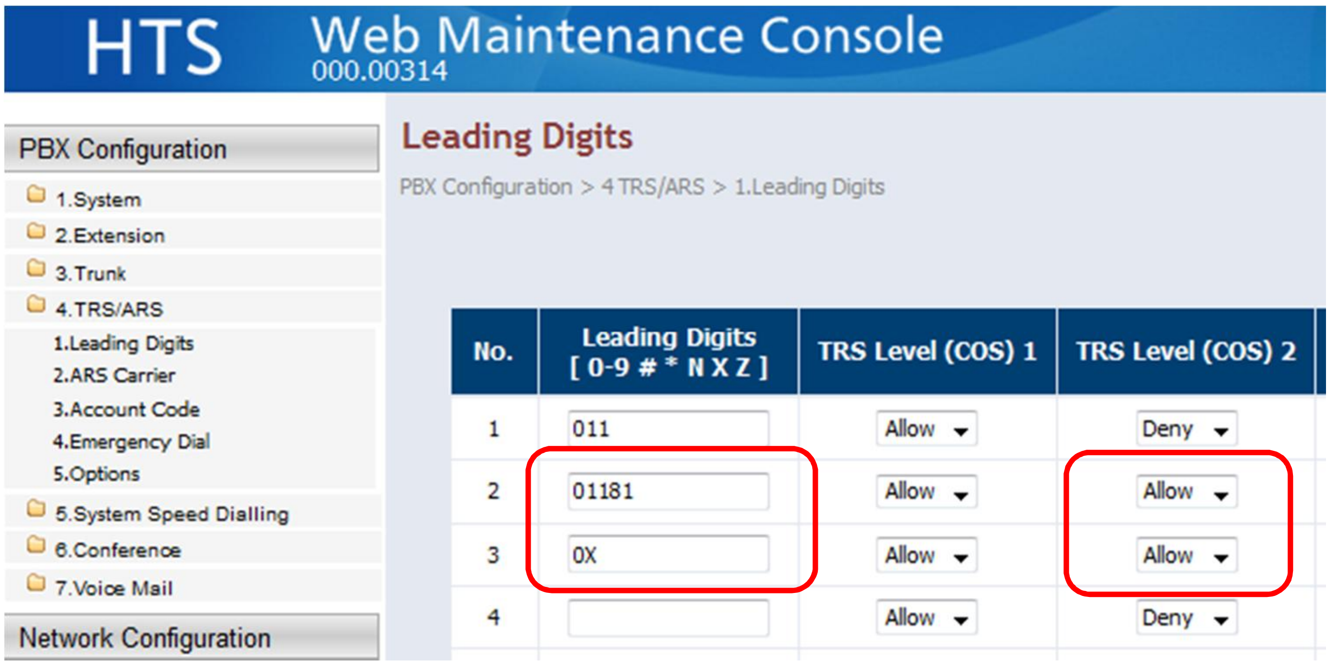
SIP trunk can be selected automatically for programmed phone number. Dialed number can be modified automatically.

9/0-011-81(Japan) selects SIP : TRG2. Remove 01181 and add 0.
Dialed number by user : 9/0-011-81-3-1234-5678
Dialed number by KX-HTS to SIP : 03-1234-5678

9/0-Other dial selects Analog CO : TRG1.



31. Assign Leading Digits & Change TRS.



Default of TRS level is 2 for all extensions.

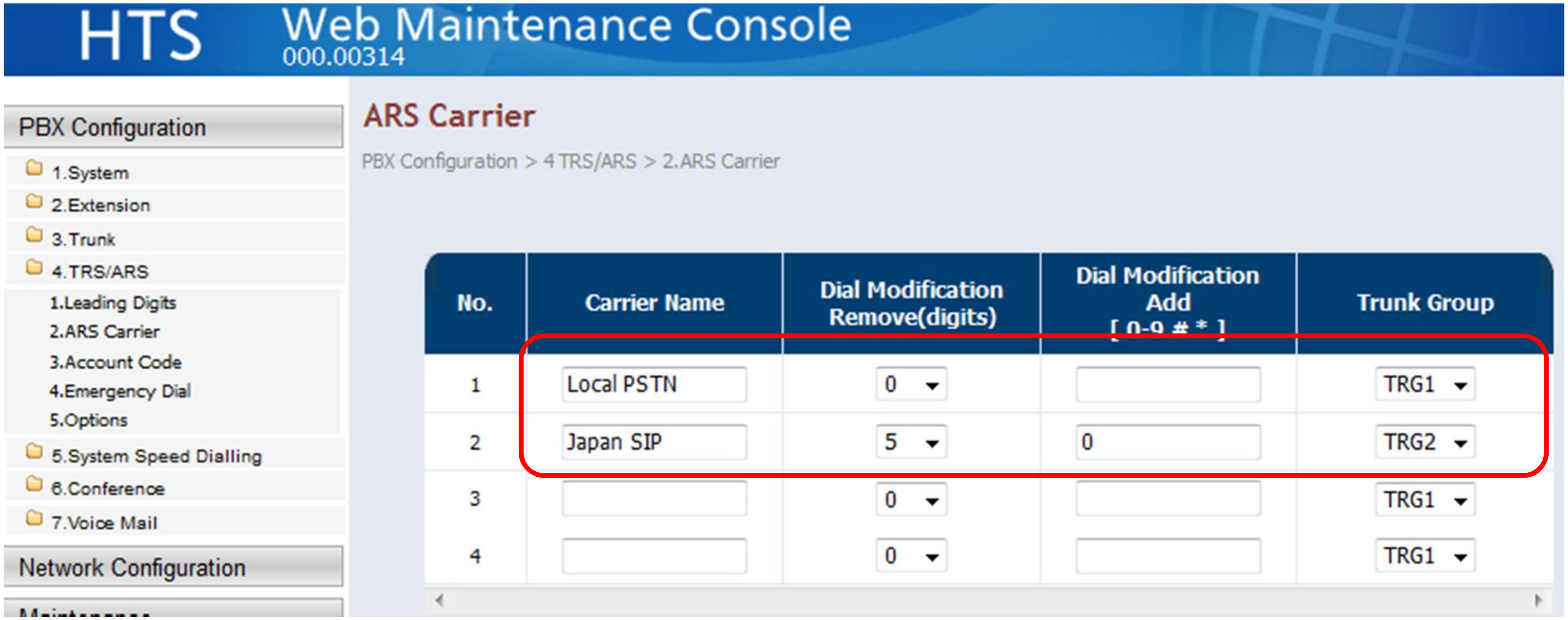
32. Assign ARS Carrier.

No.	Leading Digits [0-9 # * N X Z]	TRS Level (COS) 1	TRS Level (COS) 2	ARS Carrier Priority-1	ARS Carrier Priority-2	ARS Carrier Priority-3
1	011	Allow	Deny	1:	None	None
2	01181	Allow	Allow	2:	1:	None
3	0X	Allow	Allow	1:	None	None
4		Allow	Deny	None	None	None

If carrier name is assigned as next page, it is displayed for selection.

ARS Carrier Priority-1	ARS Carrier Priority-2	ARS Carrier Priority-3
1:Local PSTN	None	None
2:Japan SIP	1:Local PSTN	None
1:Local PSTN	None	None

33. Assign ARS Carrier.



Programming is completed. Try making call by ARS.

Thank you !

https://namlong.vn Hotline: 092 888 2345

Revision

Date	No.	Change
July 28, 2016	All	First official release
August 8, 2016	Chapter 3	ARS was added.